

30-OCT-09  
16:30:05

GEORGIA DEPARTMENT OF TRANSPORTATION  
PRECONSTRUCTION DIVISION - OFFICE OF BRIDGE & STRUCTURAL DESIGN  
LIVE LOAD CASE PROGRAM  
REVISED: JUNE 26, 2008

PROB. NO. LL01

44.00' CURB-TO-CURB; 6 BEAMS; 119.00' AVERAGE SPAN

BRIDGE WIDTH	X1	X2	CENTER LINE DISTANCE	# OF BEAMS	REACTION FORCE	MAXIMUM # OF TRUCKS	# OF COLUMNS	COLUMN WIDTH	SKEW ANGLE
47.251	3.625	3.625	23.626	6	61.547	3	2	5.000	0

  

D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12	D13	D14	D15	D16	D17	D18	D19	D20
3.626	8.000	8.000	8.000	8.000	8.000														

  

XCOL1	XCOL2	XCOL3	XCOL4	XCOL5
11.500	24.251			

LIVE LOAD CASE # 1 1 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	1.2501	76.941
2	0.7499	46.153
3	0.0000	0.000
4	0.0000	0.000
5	0.0000	0.000
6	0.0000	0.000

LIVE LOAD CASE # 2 2 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	1.2501	76.941
2	1.5001	92.328
3	1.2498	76.918
4	0.0000	0.000
5	0.0000	0.000
6	0.0000	0.000

LIVE LOAD CASE # 3 3 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	1.2501	76.941
2	1.5001	92.328
3	1.7499	107.700
4	1.2500	76.934
5	0.2499	15.379
6	0.0000	0.000

LIVE LOAD CASE # 4 1 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	0.0000	0.000
2	0.0000	0.000
3	0.0000	0.000
4	0.0000	0.000
5	0.7500	46.160
6	1.2500	76.934

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LIVE LOAD CASE # 5            2 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	0.0000	0.000
2	0.0000	0.000
3	0.0000	0.000
4	1.2500	76.934
5	1.5000	92.321
6	1.2500	76.934

LIVE LOAD CASE # 6            3 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	0.0000	0.000
2	0.2500	15.387
3	1.2500	76.934
4	1.7500	107.707
5	1.5000	92.321
6	1.2500	76.934

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LIVE LOAD CASE # 7            1 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	0.0000	0.000
2	0.3750	23.080
3	1.2500	76.934
4	0.3750	23.080
5	0.0000	0.000
6	0.0000	0.000

LIVE LOAD CASE # 8            2 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	0.6250	38.467
2	1.6250	100.014
3	1.3750	84.627
4	0.3750	23.080
5	0.0000	0.000
6	0.0000	0.000

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LIVE LOAD CASE # 9            3 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	0.6250	38.467
2	1.6250	100.014
3	1.5000	92.321
4	1.6250	100.014
5	0.6250	38.467
6	0.0000	0.000

LIVE LOAD CASE # 10 2 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	0.0000	0.000
2	0.5000	30.774
3	1.5000	92.321
4	1.5000	92.321
5	0.5000	30.774
6	0.0000	0.000

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LIVE LOAD CASE # 11 3 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	0.7500	46.160
2	1.7500	107.707
3	1.5000	92.321
4	1.5000	92.321
5	0.5000	30.774
6	0.0000	0.000

LIVE LOAD CASE # 12 2 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	1.2501	76.941
2	0.7499	46.153
3	0.0000	0.000
4	0.0000	0.000
5	0.7500	46.160
6	1.2500	76.934

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LIVE LOAD CASE # 13 3 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	1.2501	76.941
2	1.5001	92.328
3	1.2498	76.918
4	0.0000	0.000
5	0.7500	46.160
6	1.2500	76.934

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PRECONSTRUCTION DIVISION - OFFICE OF BRIDGE & STRUCTURAL DESIGN  
SUMMARY OF THE LIVE LOAD CASE PROGRAM  
REVISED: JUNE 26, 2008

PROB. NO. LL01

44.00' CURB-TO-CURB; 6 BEAMS; 119.00' AVERAGE SPAN

BRIDGE WIDTH	X1	X2	CENTER LINE DISTANCE	# OF BEAMS	REACTION FORCE	MAXIMUM # OF TRUCKS	# OF COLUMNS	COLUMN WIDTH	SKEW ANGLE										
47.251	3.625	3.625	23.626	6	61.547	3	2	5.000	0										
D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12	D13	D14	D15	D16	D17	D18	D19	D20
3.626	8.000	8.000	8.000	8.000	8.000														
XCOL1	XCOL2	XCOL3	XCOL4	XCOL5															
11.500	24.251																		
	NO. OF TRUCKS	BEAM 1	BEAM 2	BEAM 3	BEAM 4	BEAM 5	BEAM 6	BEAM 7	BEAM 8	BEAM 9	BEAM 10								
LL CASE 1	1	1	76.941	46.153	0.000	0.000	0.000	0.000	0.000	0.000	0.000								
LL CASE 2	2	2	76.941	92.328	76.918	0.000	0.000	0.000	0.000	0.000	0.000								
LL CASE 3	3	3	76.941	92.328	107.700	76.934	15.379	0.000	0.000	0.000	0.000								
LL CASE 4	4	1	0.000	0.000	0.000	0.000	46.160	76.934	0.000	0.000	0.000								
LL CASE 5	5	2	0.000	0.000	0.000	76.934	92.321	76.934	0.000	0.000	0.000								
LL CASE 6	6	3	0.000	15.387	76.934	107.707	92.321	76.934	0.000	0.000	0.000								
LL CASE 7	7	1	0.000	23.080	76.934	23.080	0.000	0.000	0.000	0.000	0.000								
LL CASE 8	8	2	38.467	100.014	84.627	23.080	0.000	0.000	0.000	0.000	0.000								
LL CASE 9	9	3	38.467	100.014	92.321	100.014	38.467	0.000	0.000	0.000	0.000								
LL CASE 10	10	2	0.000	30.774	92.321	92.321	30.774	0.000	0.000	0.000	0.000								
LL CASE 11	11	3	46.160	107.707	92.321	92.321	30.774	0.000	0.000	0.000	0.000								
LL CASE 12	12	2	76.941	46.153	0.000	0.000	46.160	76.934	0.000	0.000	0.000								
LL CASE 13	13	3	76.941	92.328	76.918	0.000	46.160	76.934	0.000	0.000	0.000								

FOR PIER PROGRAM INPUT

61LL 1 1	76941	0	46152	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
61LL 2 2	76941	0	92328	0	76918	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
61LL 3 3	76941	0	92328	0107699	76933	0	15379	0	0	0	0	0	0	0	0	0	0	0	0	0
61LL 4 1	0	0	0	0	0	0	46160	0	76933	0	76933	0	0	0	0	0	0	0	0	0
61LL 5 2	0	0	0	0	0	76933	0	92320	0	76933	0	76933	0	0	0	0	0	0	0	0
61LL 6 3	0	0	15386	0	76933107707	0	92320	0	76933	0	76933	0	0	0	0	0	0	0	0	0
61LL 7 1	0	0	23080	0	76933	23080	0	0	0	0	0	0	0	0	0	0	0	0	0	0
61LL 8 2	38466	0100013	0	84627	23080	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
61LL 9 3	38466	0100013	0	92320100013	0	38466	0	0	0	0	0	0	0	0	0	0	0	0	0	0
61LL10 2	0	0	30773	0	92320	92320	0	30773	0	30773	0	0	0	0	0	0	0	0	0	0
61LL11 3	46160	0107707	0	92320	92320	0	30773	0	0	0	0	0	0	0	0	0	0	0	0	0
61LL12 2	76941	0	46152	0	0	0	46160	0	76933	0	76933	0	0	0	0	0	0	0	0	0
61LL13 3	76941	0	92328	0	76918	0	46160	0	76933	0	76933	0	0	0	0	0	0	0	0	0